



Crude **BONGA**

Country Nigeria

TBP
DISTILLATION

Density at 15°C, kg/m ³	879.0	Assay Date	27-Oct-15	°C	wt%	vol%	°C	wt%	vol%
°API	29.4			080	3.90	5.22	460	81.49	83.30
Bbl/mt	7.168			090	4.89	6.41	480	84.37	85.94
Acidity, mg KOH/g	0.46			100	6.08	7.80	500	86.89	88.24
Sulphur, wt%	0.248			120	8.89	11.01	520	89.08	90.23
Hydrogen Sulphide, mg/kg	0			140	11.94	14.42	540	90.96	91.94
Mercaptan Sulphur, mg/kg	1			160	14.93	17.68	560	92.56	93.40
Viscosity, cSt at 10 °C	14.8			180	17.96	20.92	580	93.93	94.63
	50 °C			200	21.34	24.49			
Pour Point, °C	-24			220	25.27	28.59			
Total Nitrogen, wt%	0.121			240	29.76	33.20			
Wax, wt%	-			260	34.70	38.23			
Wax Appearance Temperature, °C	-			280	39.96	43.54			
RVP at 37.8 °C, kPa	26	Ethane	0.01 0.01	300	45.38	48.95			
Water, vol%	-	Propane	0.10 0.18	320	50.82	54.30			
NaCl, mg/kg	-	Iso-Butane	0.12 0.18	340	56.15	59.48			
Nickel, mg/kg	3.4	n-Butane	0.36 0.54	360	61.25	64.38			
Vanadium, mg/kg	0.4			380	66.06	68.94			
Iron, mg/kg	-			400	70.51	73.12			
Mercury, µg/kg	-			420	74.57	76.91			
				440	78.23	80.30			

PROPERTIES OF TBP CUTS

LIGHT NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH	RON	MON			Napht.	Aro.	RVP			
	°C	wt%	vol %	kg/m ³	wt%	mg/kg	clear	clear			vol%	vol%	kPa			
	15-65	2.15	2.88	654	0.0006	0	80.1	79.0			14.0	0.0	-			
	15-80	3.31	4.30	673	0.0009	0	78.3	76.8			24.8	0.5	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m ³	wt%	mg/kg					vol%	vol%				
	80-150	9.55	10.85	771	0.0071	0					62.7	11.3				
80-175	13.28	14.88	782	0.0112	0					61.3	14.1					
100-150	7.37	8.27	780	0.0084	0					63.9	13.3					
KEROSENE	Cuts	Yield	Yield	Den 15°C	S	RSH	Smoke	Acidity	Cetane	Freez. Pt		Aro.	Visc cSt			Flash
	°C	wt%	vol %	kg/m ³	wt%	mg/kg	Pt mm	mgKOH/g	Index	°C		vol%	50°C			Point
	150-230	14.00	14.77	830	0.044	1	20	0.13	29.7	-62		26.6	1.1			57.9
	175-230	10.27	10.74	837	0.052	2	20	0.14	30.4	-58		28.5	1.2			70.3
150-250	18.73	19.61	836	0.057	1	20	0.15	32.0	-57		27.4	1.2			61.8	
GASOIL	Cuts	Yield	Yield	Den 15°C	S		Anilin		Cetane	Cloud Pt	CFPP	Pour Pt	Visc cSt	Visc cSt	UOPK	Flash
	°C	wt%	vol %	kg/m ³	wt%		Point °C		Index	C	C	C	50°C	100°C		Point
	175-400	53.33	53.03	880	0.193		61		40.3	-11	-16	-21	3.9	1.6	11.4	86.0
	230-400	43.06	42.29	891	0.227		64		41.9	-9	-11	-13	5.6	2.0	11.4	107.0
230-375	37.44	37.01	886	0.213		63		41.8	-15	-17	-19	4.5	1.8	11.4	105.4	
VACUUM DISTILLATE	Cuts	Yield	Yield	Den 15°C	S	Conrad.	Anilin	Ni	Va	Total N	Bas N	Pour Pt	Visc cSt	Visc cSt	UOPK	Asp C7
	°C	wt%	vol %	kg/m ³	wt%	wt%	Point °C	mg/kg	mg/kg	wt%	mg/kg	C	100°C	150°C		wt %
	375-550	26.90	24.86	947	0.38	0.5	77	0	0	0.200	492	34	16.3	4.5	11.5	0.0
	375-565	28.04	25.89	948	0.38	0.6	77	0	0	0.209	509	35	17.3	4.7	11.5	0.0
	375-580	29.04	26.80	949	0.39	0.8	77	1	0	0.219	526	36	18.4	4.9	11.5	0.0
400-580	23.41	21.51	953	0.41	1.0	79	1	0	0.250	633	40	24.9	6.0	11.6	0.0	
RESIDUE	Cuts	Yield	Yield	Den 15°C	S	Conrad.	Acidity	Ni	Va	Total N		Pour Pt	Visc cSt	Visc cSt	Pene	Asp C7
	°C	wt%	vol %	kg/m ³	wt%	wt%	mgKOH/g	mg/kg	mg/kg	wt%		C	100°C	150°C	mm/10	wt%
	> 375	35.11	32.16	956	0.46	4.1	0.8	10	1	0.326		7	35	8	-	0.1
	> 550	8.21	7.30	985	0.74	16.1	0.5	40	5	0.739		44	1940	113	211	0.2
	> 565	7.08	6.27	988	0.77	17.9	0.4	46	5	0.789		46	3430	164	165	0.3
> 580	6.08	5.37	992	0.80	19.9	0.4	52	6	0.840		48	6420	245	137	0.3	

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TOTAL DTS / AM

Oct-15